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1 [Adaptive application-specific middleware](#)
[Alan Colman, Linh Duy Pham, Jun Han, Jean-Guy Schneider](#)

 November 2006 **MW4SOC '06**: Proceedings of the 1st workshop on Middleware for Service Oriented Computing (MW4SOC 2006)
Publisher: ACMFull text available: [Pdf](#) (322.61 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 25, Downloads (Overall): 374, Citation Count: 1

The open/dynamic environment of Service-Oriented Computing requires middleware that can cope with services that are heterogeneous, and possibly unknown, unreliable or untrusted. Service-oriented middleware also needs to support both, ad-hoc and long-lived ...

Keywords: ROAD, adaptive middleware, service-oriented computing
2 [A framework for rapid integration of presentation components](#)
[Jin Yu, Boualem Benatallah, Regis Saint-Paul, Fabio Casati, Florian Daniel, Mariastella Matera](#)

 May 2007 **WWW '07**: Proceedings of the 16th international conference on World Wide Web
Publisher: ACMFull text available: [Pdf](#) (402.78 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 178, Downloads (Overall): 824, Citation Count: 12

The development of user interfaces (UIs) is one of the most time-consuming aspects in software development. In this context, the lack of proper reuse mechanisms for UIs is increasingly becoming manifest, especially as software development is more and ...

Keywords: XPIL, component model, presentation component, presentation composition, presentation integration, user interface (UI)
3 [3D Component-Based Visualization Framework for Generating Simple 3D Applications Using Web Services](#)
[Masahiko Itoh, Yuzuru Tanaka](#)

 December 2006 **WI '06**: Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence
Publisher: IEEE Computer SocietyFull text available: [Pdf](#) (2.74 MB)Additional Information: [full citation](#), [abstract](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 83, Downloads (Overall): 321, Citation Count: 0

In this paper, we propose a component-based framework for generating simple 3D applications that aid users in the use of Web services without the need for programming. These days we can get lots of information through Web services. By using Web services, ...

4 [ET++—an object oriented application framework in C++](#)
[Andre Weinand, Erich Gamma, Rudolf Marty](#)

 January 1988 **OOPSLA '88**: Conference proceedings on Object-oriented programming systems, languages and applications
Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (1.40 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 73, Downloads (Overall): 675, Citation Count: 31

ET++ is an object-oriented application framework implemented in C++ for a UNIX[†] environment and a conventional window system. The architecture of ET++ is based on MacApp and integrates a rich collection of user interface building blocks as well ...

Also published in:

November 1988 **SIGPLAN Notices** Volume 23 Issue 115 [Rapid software prototyping in molecular modeling using the biochemical algorithms library \(BALI\)](#)
[N. P. Bozhossian, O. Kohlbacher, H. P. Lentzel](#)

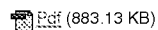
 December 2000 **Journal of Experimental Algorithmics (JEA)**, Volume 5
Publisher: ACM [Request Permissions](#)Full text available: [Latex](#) (18.00 bytes), [Pdf](#) (277.65 KB), [Ps](#) (251.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 40, Downloads (Overall): 53, Citation Count: 0

In the next century, virtual laboratories will play a key role in biotechnology. Computer experiments will not only replace some of the time-consuming and expensive real-world experiments, but they will also provide insights that cannot be obtained using ...

Keywords: libraries, molecular modeling, rapid software prototyping
6 [Direct manipulation of temporal structures in a multimedia application framework](#)
[P. Ackermann](#)

 October 1994 **MULTIMEDIA '94**: Proceedings of the second ACM international conference on Multimedia
Publisher: ACM [Request Permissions](#)

Full text available:



Pdf (883.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 20, Downloads (Overall): 297, Citation Count: 8

The design of complex multimedia documents presents new challenges to authoring systems, because spatial and temporal features should be visualized and made accessible in an intuitive and direct-manipulative way. In this study, multimedia presentations ...

7 [A framework for event composition in distributed systems](#)

[Peter B. Pietzuch, Brian Shand, Jean Bacon](#)

June 2003

Middleware '03: Proceedings of the ACM/IFIP/USENIX 2003 International Conference on Middleware**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (259.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 52, Downloads (Overall): 72, Citation Count: 5

For large-scale distributed applications such as internet-wide or ubiquitous systems, event-based communication is an effective messaging mechanism between components. In order to handle the large volume of events in such systems, composite event detection ...

8 [Experiences with open overlays: a middleware approach to network heterogeneity](#)

[Paul Grace, Denny Hughes, Barry Porter, Gordon S. Blair, Geoff Coulson, Francois Talani](#)

April 2008

Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008**Publisher:** ACM

Full text available: Pdf (661.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 85, Downloads (Overall): 361, Citation Count: 3

In order to provide an increasing number of functionalities and benefit from sophisticated and application-tailored services from the network, distributed applications are led to integrate an ever-widening range of networking technologies. As these applications ...

Keywords: WSN, framework, middleware, overlay network

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4

9 [Composite component support for EJB](#)

[Steffen Goebe, Michael Nestler](#)

January 2004

WISICT '04: Proceedings of the winter international symposium on Information and communication technologies**Publisher:** Trinity College Dublin

Full text available: Pdf (152.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 32, Downloads (Overall): 605, Citation Count: 2

Component frameworks and component middleware like Enterprise JavaBeans (EJB) have been established successfully in the last few years. However, composite components are not yet a part of these platforms. They increase reuse of software and can be used ...

10 [A general framework for prefetch scheduling in linked data structures and its application to multi-chain prefetching](#)

[Seungrui Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung](#)

May 2004

Transactions on Computer Systems (TOCS), Volume 22 Issue 2**Publisher:** ACM Request Permissions

Full text available: Pdf (2.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 84, Downloads (Overall): 1394, Citation Count: 2

Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

11 [Composing Web services on the Semantic Web](#)

[Brahim Medjahed, Athman Bouguettaya, Ahmed K. Elmagarmid](#)

November 2003

The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 4**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (1.29 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 306, Downloads (Overall): 4814, Citation Count: 61

Service composition is gaining momentum as the potential *silver bullet* for the envisioned *Semantic Web*. It purports to take the Web to unexplored efficiencies and provide a flexible approach for promoting all types of activities in tomorrow's ...

Keywords: Ontology, Semantic Web, Service composition, Web services

12 [Annotation refactoring: inferring upgrade transformations for legacy applications](#)

[Wesley Tansey, Eli Tilevich](#)

October 2008

OOPSLA '08: Proceedings of the 23rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications**Publisher:** ACM Request Permissions

Full text available: Pdf (310.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 104, Downloads (Overall): 274, Citation Count: 2


Since annotations were added to the Java language, many frameworks have moved to using annotated Plain Old Java Objects (POJOs) in their newest releases. Legacy applications are thus forced to undergo extensive restructuring in order to migrate from ...

Keywords: JUnit, annotations, eclipse, frameworks, java, metadata, refactoring, upgrading

Also published in:

October 2008 **SIGPLAN Notices** Volume 43 Issue 10

13 [Distributed collaboration for event detection in wireless sensor networks](#)

 A.V.U. Phani Kumar, Adi Mallikarjuna Reddy V., D. Janakiram

November 2005 **MPAC '05**: Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing

Publisher: ACM

Full text available:  Pdf (633.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 88, Downloads (Overall): 744, Citation Count: 5

With the advancement of technology in micro-electronics and wireless communication, small miniature devices called sensor nodes can be used to perform various tasks by forming themselves in to wireless sensor networks. In Wireless Sensor Networks(WSN), ...


Keywords: collaboration, composite event, event, event of interest, middleware, protocol, publish/subscribe, simple event, wireless sensor networks

14 [Composite contract enforcement in hierarchical component systems](#)

Philippe Collet, Jacques Malenfant, Alain Ouzanne, Nicolas Rivierre

March 2007 **SC'07**: Proceedings of the 6th international conference on Software composition

Publisher: Springer-Verlag


Full text available:  Pdf (626.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 0, Citation Count: 0



Abadi and Lamport established a general theorem for composing specifications [1]. Based on an assume-guarantee principle, it enables one to prove the specification of a composite system from the ones of its components. But the general application of ...

15 [Interactive digital photomontage](#)

 Aseem Agarwala, Mira Doncheva, Maneesh Agrawala, Steven Drucker, Alex Ceburn, Brian Curless, David Salesin, Michael Cohen

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Papers

Publisher: ACM 

Full text available:  Mov (21:20 MIN),  Pdf (772.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 338, Downloads (Overall): 2400, Citation Count: 84

We describe an interactive, computer-assisted framework for combining parts of a set of photographs into a single composite picture, a process we call "digital photomontage." Our framework makes use of two techniques primarily: graph-cut optimization, ...

Keywords: Interactive image editing, image compositing, user-guided optimization

Also published in:


August 2004 **Transactions on Graphics (TOG)** Volume 23 Issue 3

16 [A configurable and extensible transport protocol](#)

Patrick G. Bridges, Gary T. Wong, Matti Hiltunen, Richard D. Schlichting, Matthew J. Barrick

December 2007 **IEEE/ ACM Transactions on Networking (TON)**, Volume 15 Issue 6

Publisher: IEEE Press

Full text available:  Pdf (698.86 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 51, Downloads (Overall): 193, Citation Count: 1

The ability to configure transport protocols from collections of smaller software modules allows the characteristics of the protocol to be customized for a specific application or network technology. This paper describes a configurable transport protocol ...


Keywords: configuration, customization, extensibility, transport protocol

17 [Multi-Level Secure Framework \(MLSF\) for composite web services](#)

 J. G. R. Sathiaselvan, S. Albert Babars, J. Ronal Martin

November 2009 **ICIS '09**: Proceedings of the 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human

Publisher: ACM 

Full text available:  Pdf (358.54 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 60, Downloads (Overall): 60, Citation Count: 0

The Web services technology is the emerging field in the area of Web engineering which emphasizes on designing web services-based applications, architectural models and standards, web services technology platforms, tools and specifications for building ...


Keywords: composite web services, framework, security, web services

18 [Using a recursive traversal algorithm with an active composite pattern in swing applications](#)

 Robert M. Langueedoc, James C. McKim, Jr., Joseph G. Trausch

October 2009 **OOPSLA '09**: Proceeding of the 24th ACM SIGPLAN conference companion on Object oriented programming systems languages and applications

Publisher: ACM 

Full text available:  Pdf (729.43 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 34, Downloads (Overall): 34, Citation Count: 0

A typical user interface contains hundreds of visual data entry components against which basic functions such as clearing, validating or data extracting are executed. Components often require notification of particular events to change their state. A ...

Keywords: composite, desktop, recursion, visitor

19 [Decentralizing execution of composite web services](#)

 [Mangala Gowri Nanda](#), [Satish Chandra](#), [Vivek Sarkar](#)

October 2004 **OOPSLA '04**: Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (429.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 101, Downloads (Overall): 1353, Citation Count: 16


Distributed enterprise applications today are increasingly being built from services available over the web. A unit of functionality in this framework is a web service, a software application that exposes a set of "typed" connections that can be accessed ...

Keywords: business process, program dependence graph, work flow

Also published in:

October 2004 **SIGPLAN Notices** Volume 39 Issue 10

20 [Efficient algorithms for Web services selection with end-to-end QoS constraints](#)

 [Tao Yu](#), [Yus Zhang](#), [Kwei-Jay Lin](#)

May 2007 **Transactions on the Web (TWEB)**, Volume 1 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (832.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 467, Downloads (Overall): 2369, Citation Count: 20





Service-Oriented Architecture (SOA) provides a flexible framework for service composition. Using standard-based protocols (such as SOAP and WSDL), composite services can be constructed by integrating atomic services developed independently. Algorithms ...

Keywords: End-to-end QoS, Web services, service composition, service oriented architecture (SOA), service selection

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